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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/675,950	75,950 09/29/2000		Jorgen Topp Jorgensen	6136.200-US	1104
25908	7590	07/03/2002			
		RTH AMERICA, 1	EXAMINER		
500 FIFTH AVENUE SUITE 1600				WITZ, JEAN C	
NEW YORK	NEW YORK, NY 10110			ART UNIT	PAPER NUMBER
				ARI UNII	PAPER NUMBER
				1651	12
				DATE MAILED: 07/03/2002	')

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summary	09/675,950	JORGENSEN ET AL.					
	Examiner	Art Unit					
The MAILING DATE of this communication and	Jean C. Witz	1651					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be timwithin the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. & 133)					
1) Responsive to communication(s) filed on							
<u> </u>	— · s action is non-final.						
, <u> </u>		osacution as to the morite is					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>1-8,11-15 and 17-28</u> is/are pending in	the application.						
4a) Of the above claim(s) 12,13 and 25 is/are w	4a) Of the above claim(s) 12,13 and 25 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) <u>1-8,14,15,17-24 and 26-28</u> is/are reject	Claim(s) <u>1-8,14,15,17-24 and 26-28</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1.⊠ Certified copies of the priority documents	have been received.						
2. Certified copies of the priority documents	have been received in Application	n No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Page	(PTO-413) Paper No(s) atent Application (PTO-152)					
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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-8, 11, 14-15, 17-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liddell et al. in view Neubeck

Liddell et al. discloses spray drying whole microorganisms resultant from culture for the purpose of preserving enzymes contained within the cells. Microorganisms as claimed and enzymes as claimed are disclosed by the Liddell patent is that Applicants spray dry the biomass including the fermentation broth, while Liddell spray dries the cells alone.

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It is well known that during the fermentation of enzyme-producing cells, that some enzyme is excreted into the fermentation broth while some enzyme remains stored inside the cells. Liddell teaches the benefit of spray-drying the cells to maintain the enzyme activity. Neubeck teaches a process for spray-drying enzymes, specifically the fermentation broth after culture of a microorganism. Neubeck teaches to include incipients and to prepare the broth in a manner to remove substances which are the major cause of discoloration, hygroscopicity, odor, gumming, caking, etc. that would lead to deterioration of the product.

It would have been obvious to one of ordinary skill in the art to leave the cells, i.e. biomass, in the fermentation broth prior to spray drying in order to obtain the benefit of the cells as taught by Liddell et al. Manipulations of the broth and the biomass as claimed, such as desludging, inclusion of exipients, and the type of spray drying apparatus, absent objective evidence to the contrary, are deemed well within the skill of the practitioner.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean C. Witz whose telephone number is (703) 308-3073. The examiner can normally be reached on 6:30 a.m. to 4:00 p.m. M-Th and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on (703) 308-4743. The fax phone numbers for the organization where this application or proceeding is assigned are (703)

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872-9306 for regular communications and (703) 872-9307 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Jean C. Witz Primary Examiner Art Unit 1651

July 1, 2002